

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J0325-1590
Lot 25 Ducks Landing

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I73658433 thru I73658459

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



May 22, 2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	A1G	COMMON SUPPORTED GAB	1	1	173658433

Comtech, Inc., Fayetteville, NC - 28314,

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ID:oAgme8L4apHnLZfut7MeGazyS40-aEyeDHcVWXBcgkFQgYbA6ECLjmJKSZ2n_OFoOzEJ07

0-10-8

0-10-8

10-0-0

10-0-0

20-0-0

20-0-0

20-10-8

0-10-8

5x5 =

Scale = 1:50.4

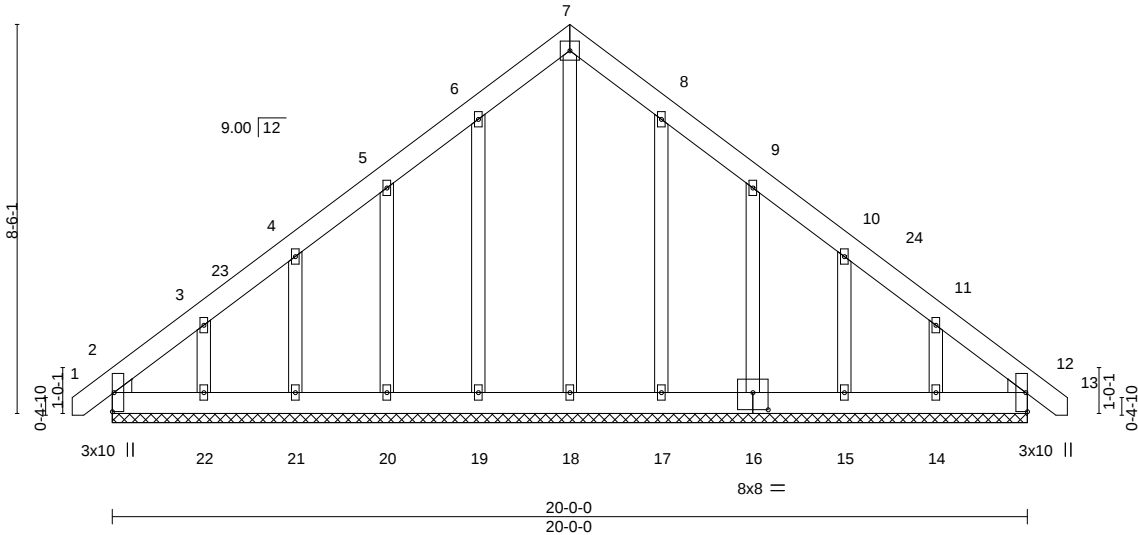


Plate Offsets (X,Y)-- [16:0-4-0,0-4-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 169 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=-242(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 21, 17, 15, 12 except 20=-108(LC 12), 22=-160(LC 12), 16=-110(LC 13), 14=-152(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-270/193

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-0 to 3-7-13, Exterior(2N) 3-7-13 to 10-0-0, Corner(3R) 10-0-0 to 14-4-13, Exterior(2N) 14-4-13 to 20-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 21, 17, 15, 12 except (jt=lb) 20=108, 22=160, 16=110, 14=152.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	A2	COMMON	1	1	173658434

Comtech, Inc., Fayetteville, NC - 28314,

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ID:oAgme8L4apHnLZfut7MeGazyS40-2RW0Qdd7HrJTLuqcDF6PeSIUvAa43vbB0e7oLqzEJ06

Job Reference (optional)

0-10-8 5-0-4 10-0-0 14-11-12 20-0-0 20-10-8

0-10-8 5-0-4 4-11-12 4-11-12 5-0-4 0-10-8

5x5 =

Scale = 1:49.7

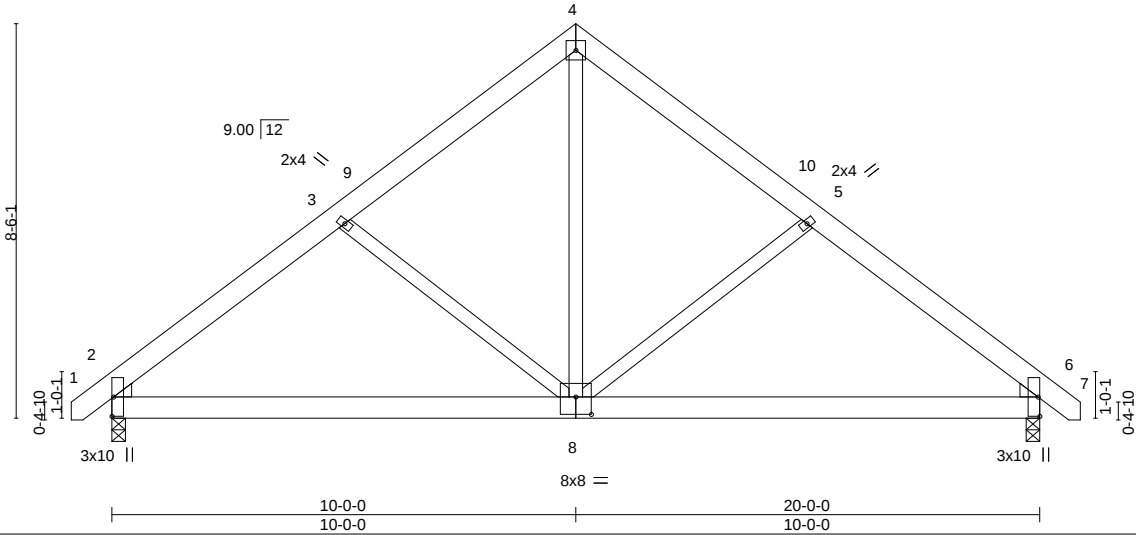


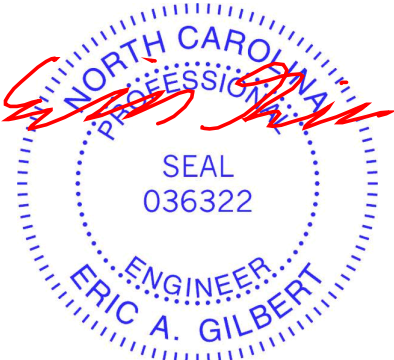
Plate Offsets (X,Y)-- [8:0-4-0,0-4-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.05 2-8 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.10 2-8 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01 6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.01 2-8 >999 240	Weight: 142 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.2 , Right: 2x4 SP No.2			

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=-193(LC 10)
Max Uplift 6=-48(LC 13), 2=-48(LC 12)
Max Grav 6=842(LC 1), 2=842(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-962/238, 3-4=-750/236, 4-5=-750/236, 5-6=-962/238
BOT CHORD 2-8=-110/737, 6-8=-89/684
WEBS 4-8=-117/541, 5-8=-259/213, 3-8=-259/213

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 10-0-0, Exterior(2R) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	B1G	COMMON STRUCTURAL GA	1	1	173658435

Comtech, Inc., Fayetteville, NC - 28314,

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ID:oAgme8L4apHnLZfut7MeGazyS40-Wd3Oeyel29RKw2OonzeeBfHd1auJoFDLFHtMtHzEJ05

0-10-8 6-9-4 13-6-0 20-2-12 27-0-0 27-10-8
0-10-8 6-9-4 6-8-12 6-8-12 6-9-4 0-10-8

5x12 ||

Scale = 1:65.2

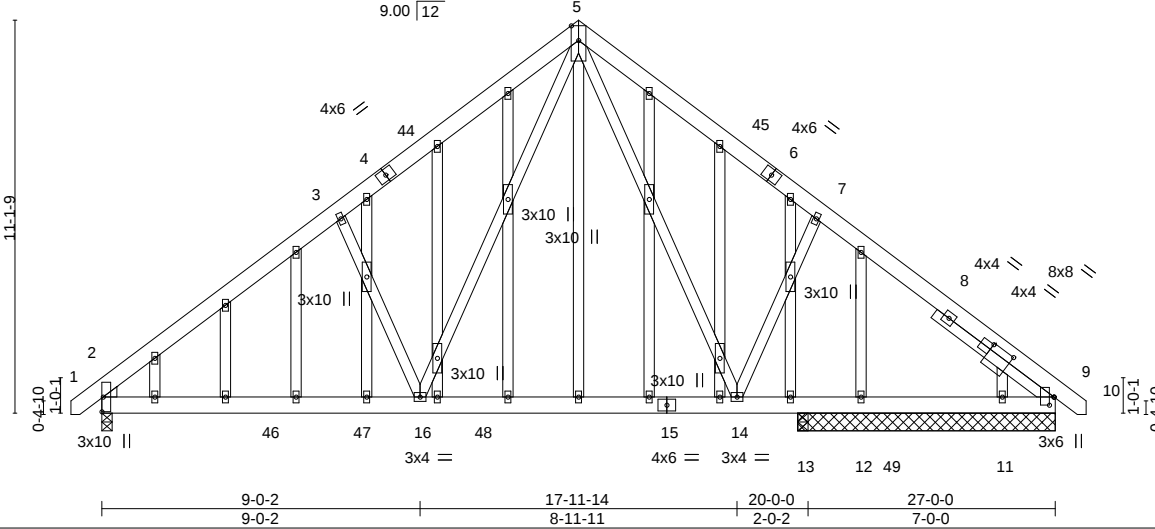


Plate Offsets (X,Y)-- [9:0-2-12,0-1-9], [9:2-3-0,0-2-0], [43:1-7-1,0-2-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	in (loc)	l/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(LL)	-0.10 14-16	>999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Vert(CT)	-0.16 14-16	>999	240
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Horz(CT)	0.02 9	n/a	n/a
						Wind(LL)	0.03 14-16	>999	240
								Weight: 302 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.2			
SLIDER	Right 2x4 SP No.2 4-1-9		

REACTIONS. All bearings 7-3-8 except (jt=length) 2=0-3-8, 13=0-3-8.
(lb) - Max Horz 2=-320(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=-206(LC 12), 9=-123(LC 13), 12=-189(LC 1), 13=-148(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=1287(LC 19), 9=901(LC 20), 11=251(LC 20), 13=488(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1526/268, 3-5=-1434/391, 5-7=-1179/355, 7-9=-1317/243
BOT CHORD 2-16=-264/1332, 14-16=-19/823, 13-14=-76/963, 12-13=-76/963, 11-12=-76/963, 9-11=-76/963
WEBS 5-14=-196/452, 7-14=-359/374, 5-16=-266/941, 3-16=-364/379

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 13-6-0, Exterior(2R) 13-6-0 to 17-10-13, Interior(1) 17-10-13 to 27-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=206, 9=123, 12=189, 13=148.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompoments.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	B3	ATTIC	3	1	173658437

Comtech, Inc., Fayetteville, NC - 28314, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:21 2025 Page 1
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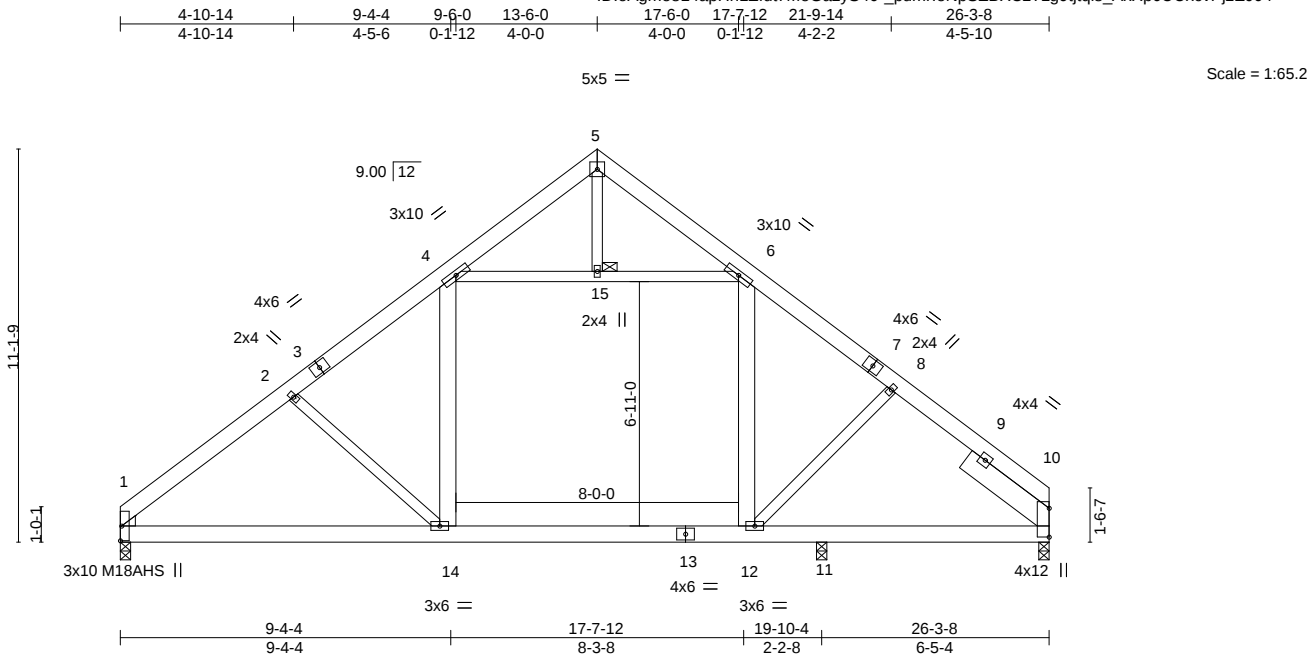


Plate Offsets (X,Y)-- [10:Edge,0-0-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.16 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.24 12-14	>999	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 1-14	>999	240	Weight: 215 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-14,6-12: 2x6 SP No.1, 4-6: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x8 SP No.1 3-0-4

REACTIONS. (size) 1=0-3-8, 10=0-3-8, 11=0-3-8
Max Horz 1=-254(LC 10)
Max Uplift 11=-274(LC 8)
Max Grav 1=1498(LC 20), 10=1524(LC 20), 11=200(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2056/8, 2-4=-1898/10, 4-5=-403/65, 5-6=-426/70, 6-8=-1929/33, 8-10=-2039/31
BOT CHORD 1-14=0/1679, 12-14=0/1580, 11-12=0/1406, 10-11=0/1406
WEBS 4-14=0/615, 4-15=-1246/94, 6-15=-1246/94, 6-12=-14/573

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-8-12, Interior(1) 4-8-12 to 13-6-0, Exterior(2R) 13-6-0 to 17-8-12, Interior(1) 17-8-12 to 26-3-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-15, 6-15; Wall dead load (5.0psf) on member(s).4-14, 6-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=274.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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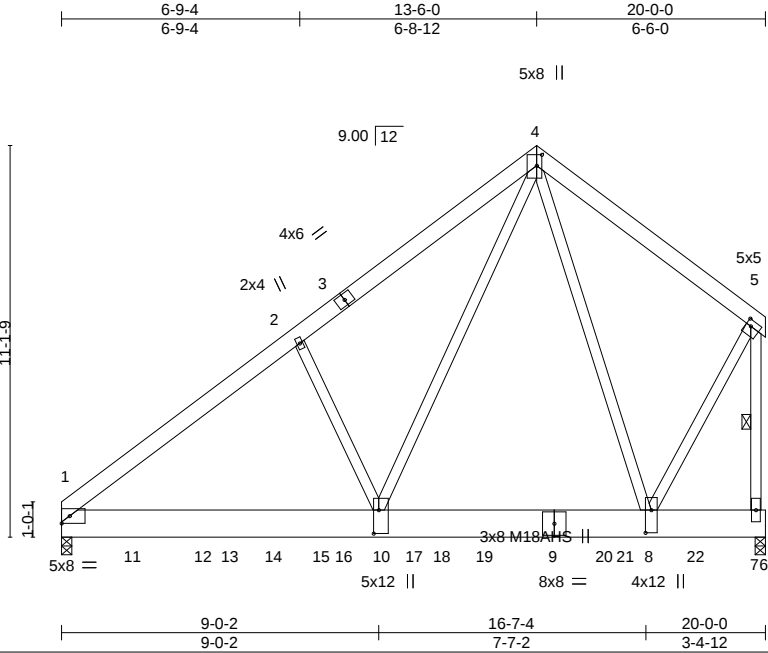
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	B4L	Common Girder	1	2	173658438

Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:21 2025 Page 1
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Scale = 1:65.5

Plate Offsets (X,Y)--		[4:0-3-12,0-1-12], [5:0-1-12,0-2-0], [8:0-7-12,0-2-0], [10:0-8-0,0-1-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49
TCDL 10.0	Lumber DOL	1.15	BC 0.57
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.93
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.14 1-10 >999 360
			Vert(CT) -0.24 1-10 >984 240
			Horz(CT) 0.02 7 n/a n/a
			Wind(LL) 0.08 1-10 >999 240
			PLATES GRIP
			MT20 244/190
			M18AHS 186/179
			Weight: 389 lb FT = 20%

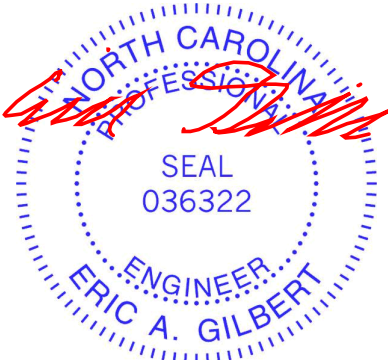
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-7

REACTIONS.	(size) 1=0-3-8, 7=0-3-8
	Max Horz 1=245(LC 8)
	Max Uplift 1=-516(LC 8), 7=-565(LC 8)
	Max Grav 1=7204(LC 2), 7=7228(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-7712/571, 2-4=-7527/676, 4-5=-3422/326, 5-7=-7246/581
BOT CHORD	1-10=-591/5940, 8-10=-239/2940
WEBS	2-10=-374/360, 4-10=-663/7615, 4-8=-918/134, 5-8=-426/5749

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=516, 7=565.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1406 lb down and 118 lb up at 1-11-4, 1402 lb down and 118 lb up at 3-11-4, 1376 lb down and 118 lb up at 5-11-4, 1400 lb down and 118 lb up at 7-11-4, 1402 lb down and 118 lb up at 9-11-4, 1376 lb down and 118 lb up at 11-11-4, 1376 lb down and 118 lb up at 13-11-4, and 1399 lb down and 118 lb up at 15-11-4, and 1406 lb down and 118 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



May 22, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	B4L	Common Girder	1	2	173658438

Comtech, Inc, Fayetteville, NC - 28314,

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ID:oAgme8L4apHnLZfut7MeGazyS40-S0B83ef?amh29LYBvNg6G4NvbNZxG4ddibMTx9zEJ03

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-60, 4-5=-60, 1-6=-20
 - Concentrated Loads (lb)
 - Vert: 9=-1284(B) 11=-1284(B) 12=-1284(B) 14=-1284(B) 16=-1284(B) 17=-1284(B) 19=-1284(B) 21=-1284(B) 22=-1284(B)



May 22,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	D1G	Common Supported Gable	1	1	173658439

Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:22 2025 Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-S0B83ef?amh29LYBvNg6G4N?NNhxGGddibMTx9zEJ03

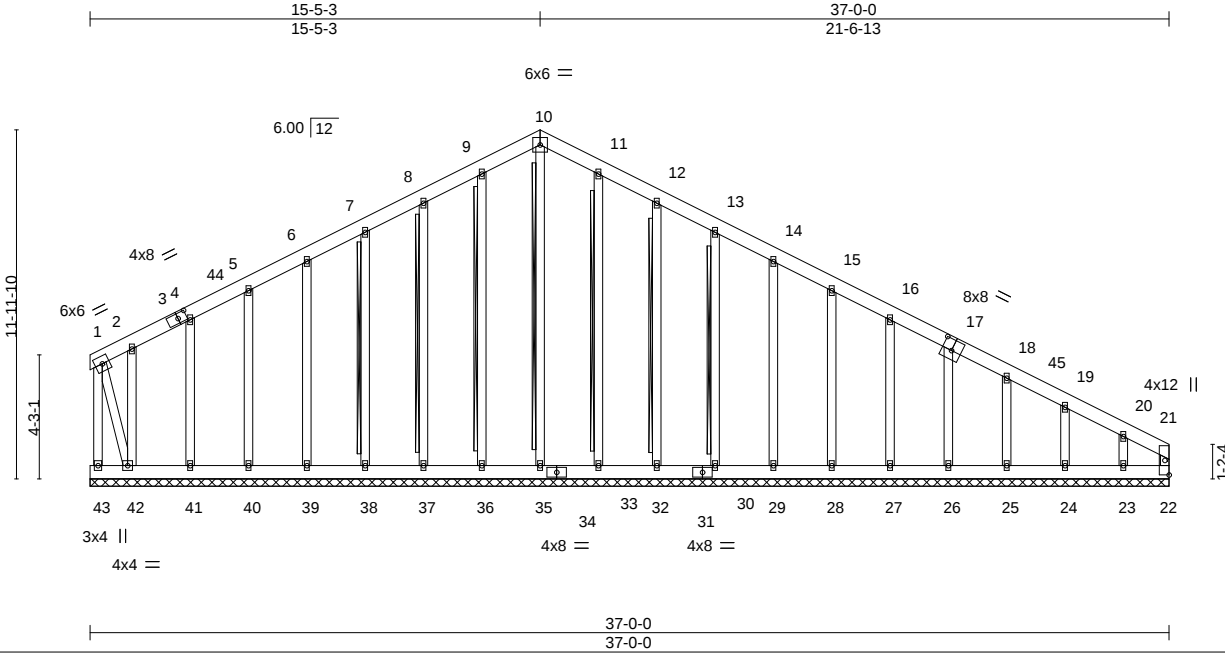


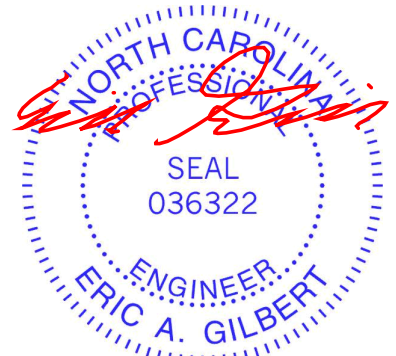
Plate Offsets (X,Y)--		[3:0-3-8,0-2-0], [17:0-4-0,0-4-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12
TCDL 10.0	Lumber DOL	1.15	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	n/a	-	n/a 999
Vert(CT)	n/a	-	n/a 999
Horz(CT)	0.01	22	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 368 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	T-Brace: 2x4 SPF No.2 - 10-35, 9-36, 8-37, 7-38, 11-33, 12-32, 13-30
OTHERS 2x4 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 37-0-0.
(lb) - Max Horz 43=-193(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 22, 36, 37, 38, 39, 40, 41, 33, 32, 30, 29, 28, 27, 26, 25, 24 except 43=-137(LC 8), 42=-140(LC 12), 23=-144(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 43, 22, 35, 36, 37, 38, 39, 40, 41, 42, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-93/270, 7-8=-113/329, 8-9=-136/393, 9-10=-146/426, 10-11=-146/426, 11-12=-136/393, 12-13=-113/329, 13-14=-93/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-3-4 to 4-8-1, Exterior(2N) 4-8-1 to 15-5-3, Corner(3R) 15-5-3 to 19-10-0, Exterior(2N) 19-10-0 to 36-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 36, 37, 38, 39, 40, 41, 33, 32, 30, 29, 28, 27, 26, 25, 24 except (jt=lb) 43=137, 42=140, 23=144.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



May 22,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

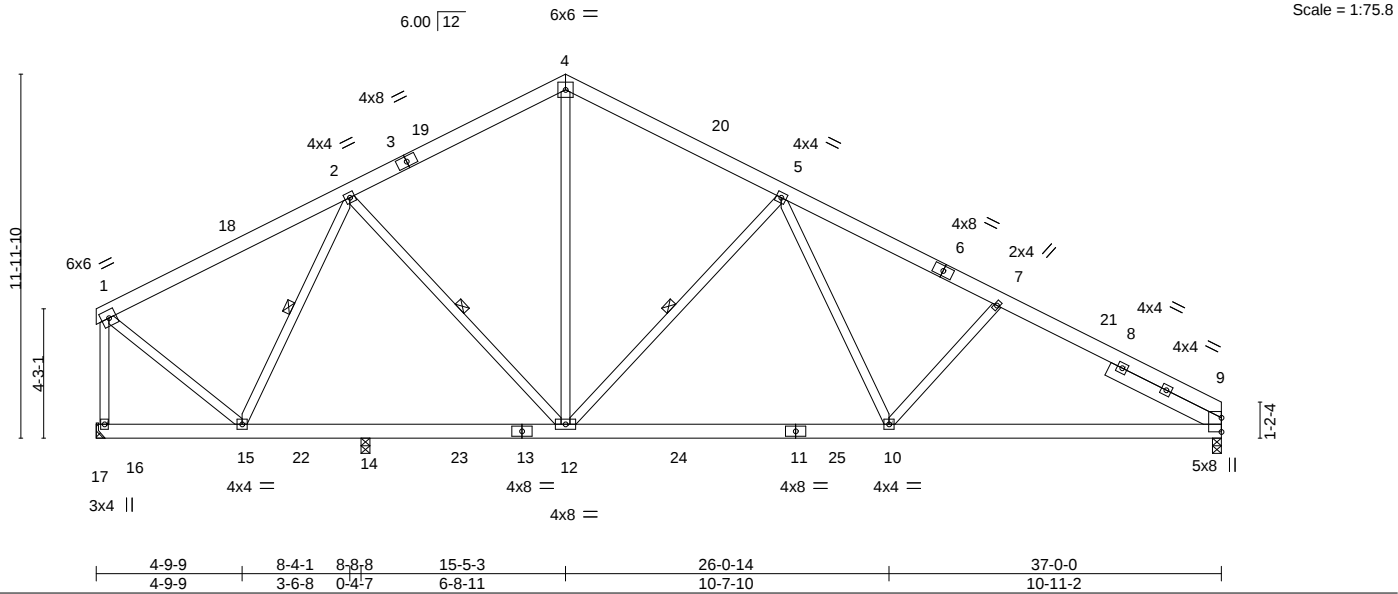
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing	173658440
J0325-1590	D2	Common	9	1	Job Reference (optional)	

Comtech, Inc,	Fayetteville, NC - 28314,	8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:23 2025 Page 1
		ID:oAgme8L4apHnLZfut7MeGazyS40-wCIWG_gdL4pvnV7NS5BLplv64nut?fhnxF50UbzEJ02
		22-6-5 29-7-6 37-0-0 7-4-10



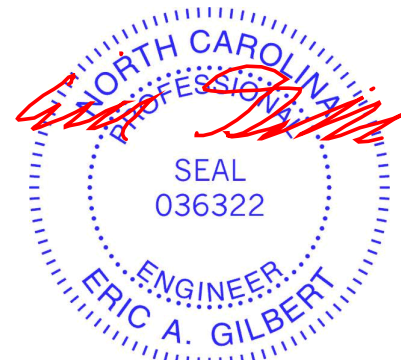
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.20 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.31 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 9 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.05 10-12 >999 240	Weight: 286 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-12, 2-12, 2-15
SLIDER Right 2x6 SP No.1 4-1-12	

REACTIONS. (size) 16=Mechanical, 9=0-3-8, 14=0-3-8
Max Horz 16=-218(LC 13)
Max Uplift 16=-98(LC 12), 9=-105(LC 13)
Max Grav 16=1441(LC 2), 9=1594(LC 2), 14=425(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1032/280, 2-4=-1460/461, 4-5=-1458/456, 5-7=-2340/501, 7-9=-2569/514, 1-16=-1312/342
BOT CHORD 14-15=-112/1221, 12-14=-112/1221, 10-12=-184/1778, 9-10=-323/2133
WEBS 4-12=-191/920, 5-12=-865/279, 5-10=-22/688, 1-15=-184/1091, 2-15=-756/231

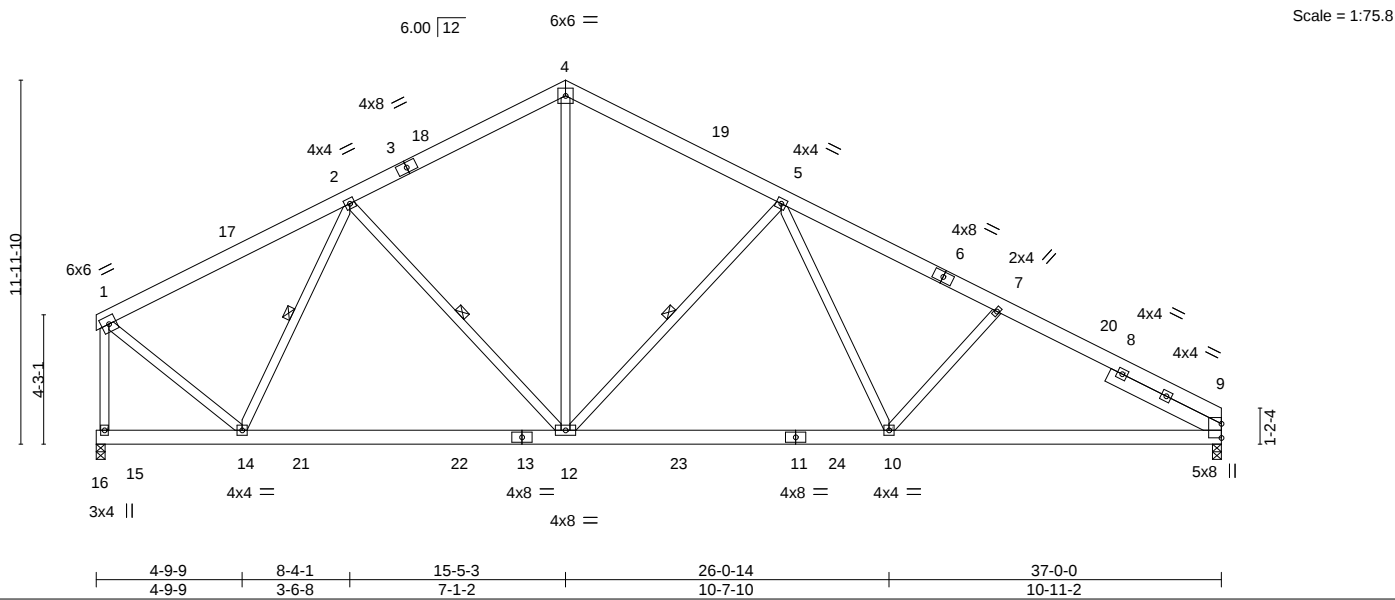
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 15-5-3, Exterior(2R) 15-5-3 to 19-10-0, Interior(1) 19-10-0 to 37-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 9=105.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing	173658441
J0325-1590	D3	Common	4	1	Job Reference (optional)	

Comtech, Inc.,
Fayetteville, NC - 28314,
8.530 s Aug 2 2023
MiTek Industries, Inc.
Wed May 21 10:19:24 2025
Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-OOJvTKhG6NxmOfia0oiaLVSFxBEmk6CwAvrZ02zEJ01
22-6-5
29-7-6
37-0-0
7-1-2
7-4-10



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	Vert(LL)	-0.17 10-12	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(CT)	-0.26 10-12	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Horz(CT)	0.06 9	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.04 10-12	>999	240		
	Code IRC2018/TPI2014						Weight: 286 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-12, 2-12, 2-14
SLIDER Right 2x6 SP No.1 4-1-12	

REACTIONS. (size) 15=0-3-8, 9=0-3-8
Max Horz 15=-218(LC 13)
Max Uplift 15=-64(LC 12), 9=-94(LC 13)
Max Grav 15=1754(LC 2), 9=1690(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1359/261, 2-4=-1684/448, 4-5=-1683/443, 5-7=-2515/491, 7-9=-2740/504, 1-15=-1740/317
BOT CHORD 12-14=-97/1475, 10-12=-174/1957, 9-10=-315/2280
WEBS 4-12=-180/1120, 5-12=-832/281, 5-10=-25/635, 1-14=-160/1510, 2-14=-670/238

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 15-5-3, Exterior(2R) 15-5-3 to 19-10-0, Interior(1) 19-10-0 to 37-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing	173658442
J0325-1590	D4	ROOF SPECIAL	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:24 2025 Page 1
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-0-10-8 7-9-3 15-1-3 22-5-3 29-7-0 36-8-12 44-0-0
0-10-8 7-9-3 7-4-0 7-4-0 7-1-13 7-1-13 7-3-4

Scale = 1:81.6

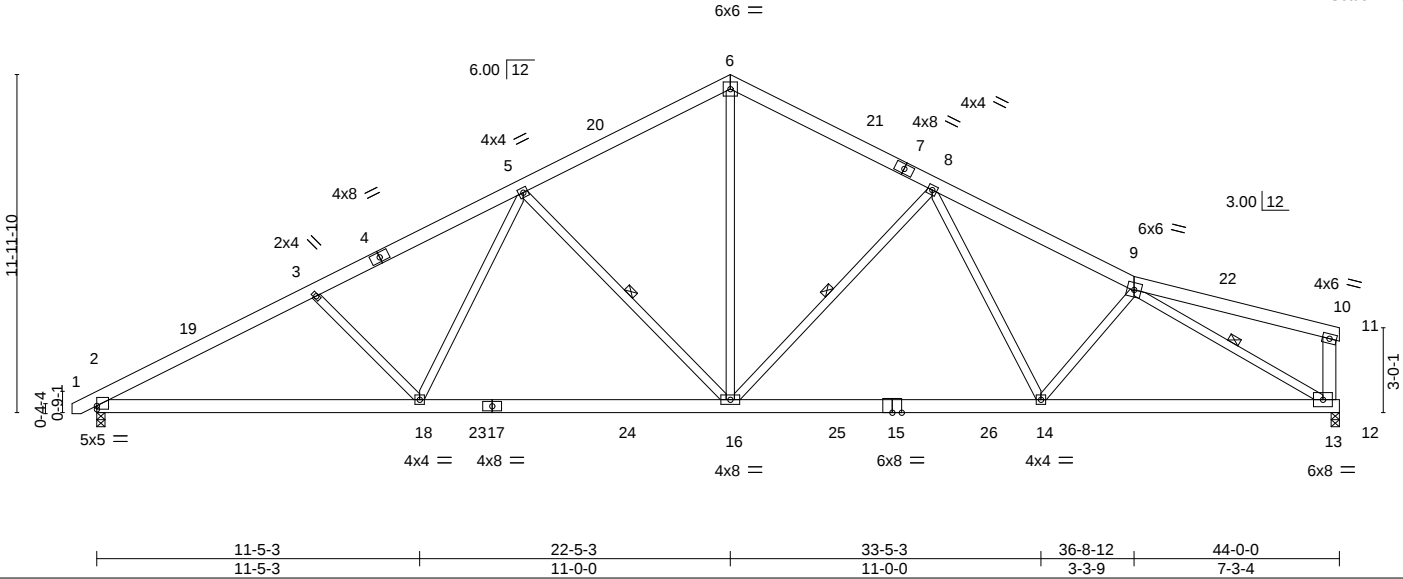


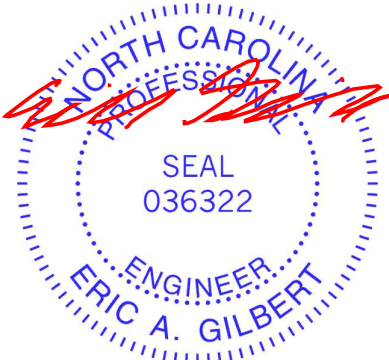
Plate Offsets (X,Y)-- [2:0-0-0,0-1-7]		11-5-3 11-5-3		22-5-3 11-0-0		33-5-3 11-0-0		36-8-12 3-3-9		44-0-0 7-3-4	
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.15		TC 0.33		Vert(LL) -0.26 14-16 >999 360		MT20		244/190	
TCDL 10.0		Lumber DOL 1.15		BC 0.70		Vert(CT) -0.42 14-16 >999 240					
BCLL 0.0 *		Rep Stress Incr YES		WB 0.93		Horz(CT) 0.11 13 n/a n/a					
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.10 14-16 >999 240		Weight: 323 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD 2x6 SP No.1		TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.	
BOT CHORD 2x6 SP No.1		BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.	
WEBS 2x4 SP No.2 *Except*		WEBS 1 Row at midpt 5-16, 8-16, 9-13	
10-13: 2x6 SP No.1			

REACTIONS. (size) 2=0-3-8, 13=0-3-8	
Max Horz 2=193(LC 12)	
Max Uplift 2=-117(LC 12), 13=-103(LC 13)	
Max Grav 2=2048(LC 2), 13=2043(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-3594/897, 3-5=-3365/860, 5-6=-2351/736, 6-8=-2350/740, 8-9=-3114/796, 9-10=-256/96, 10-13=-302/173	
BOT CHORD 2-18=-799/3156, 16-18=-577/2632, 14-16=-533/2496, 13-14=-649/2734	
WEBS 3-18=-356/288, 5-18=-77/788, 5-16=-885/380, 8-16=-727/343, 8-14=-9/554, 6-16=-390/1686, 9-13=-2993/727	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 22-5-3, Exterior(2R) 22-5-3 to 26-10-0, Interior(1) 26-10-0 to 44-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117, 13=103.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	D5	ROOF SPECIAL	5	1	173658443

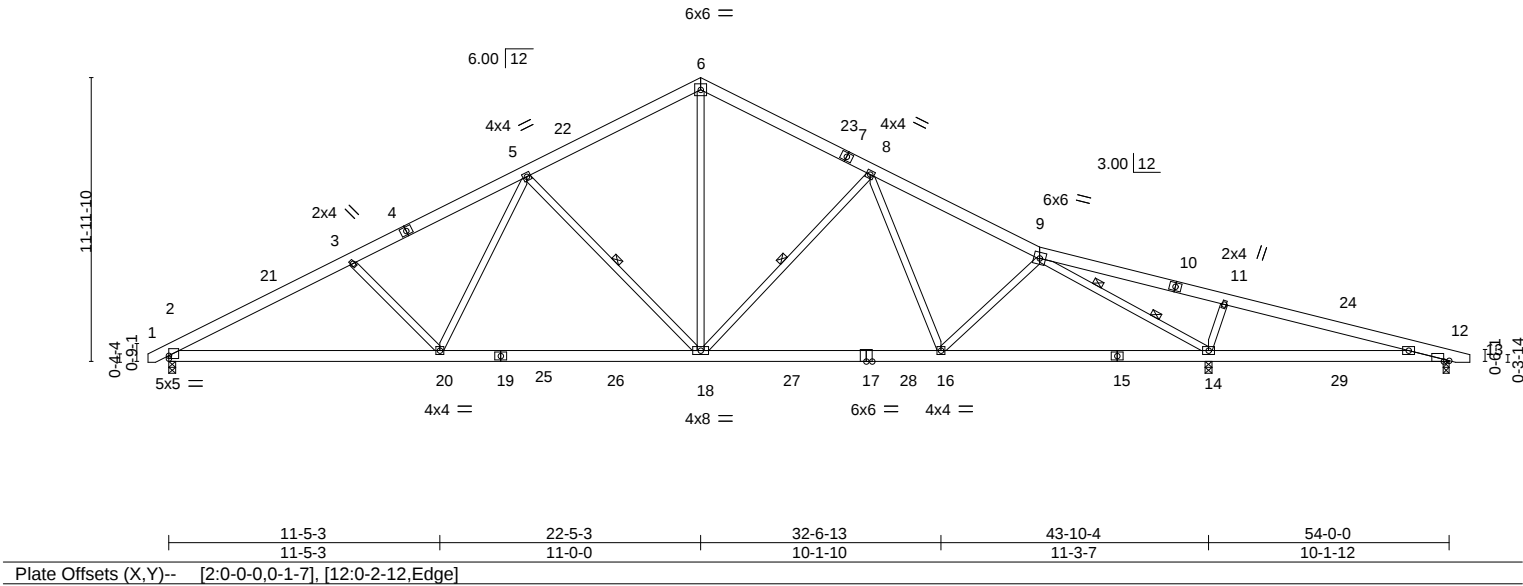
Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:25 2025 Page 1

ID:oAgme8L4apHnLZfut7MeGazyS40-sbtHhghuth3d0pHmaWDpuj?QlbYITRI4Oza7YUzEJ00

0-10-8 7-9-3 15-1-3 22-5-3 29-7-0 36-8-12 44-6-2 54-0-0 54-10-8
0-10-8 7-9-3 7-4-0 7-4-0 7-1-13 7-1-13 7-9-6 9-5-14 0-10-8

Scale = 1:97.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.25	18-20	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.40	18-20	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.10	14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.22	12-14	>555	240	Weight: 371 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-18, 8-18
	2 Rows at 1/3 pts 9-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 12=0-3-0
Max Horz 2=-149(LC 10)
Max Uplift 2=-118(LC 12), 14=-161(LC 13), 12=-169(LC 9)
Max Grav 2=1993(LC 2), 14=2766(LC 2), 12=252(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3481/870, 3-5=-3251/831, 5-6=-2225/710, 6-8=-2224/711, 8-9=-2759/656,
9-11=-127/777, 11-12=-133/657
BOT CHORD 2-20=-656/3083, 18-20=-437/2551, 16-18=-338/2302, 14-16=-383/2262, 12-14=-567/164
WEBS 3-20=-358/293, 5-20=-75/801, 5-18=-894/387, 8-18=-623/277, 8-16=0/353, 9-16=0/281,
9-14=-3496/775, 11-14=-617/394, 6-18=-363/1574

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 4-8-3, Interior(1) 4-8-3 to 22-5-3, Exterior(2R) 22-5-3 to 27-10-0, Interior(1) 27-10-0 to 54-6-15 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=118, 14=161, 12=169.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	D6G	ROOF SPECIAL SUPPORT	1	1	173658444

Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:26 2025 Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-LnRfu0iWe?CTezsy8Dk2QwXiK?2IC4?DdDKg4wzEJ0?

-0-10-8 22-5-3 36-8-12 54-0-0 54-10-8
0-10-8 22-5-3 14-3-9 17-3-4 0-10-8

Scale = 1:99.8

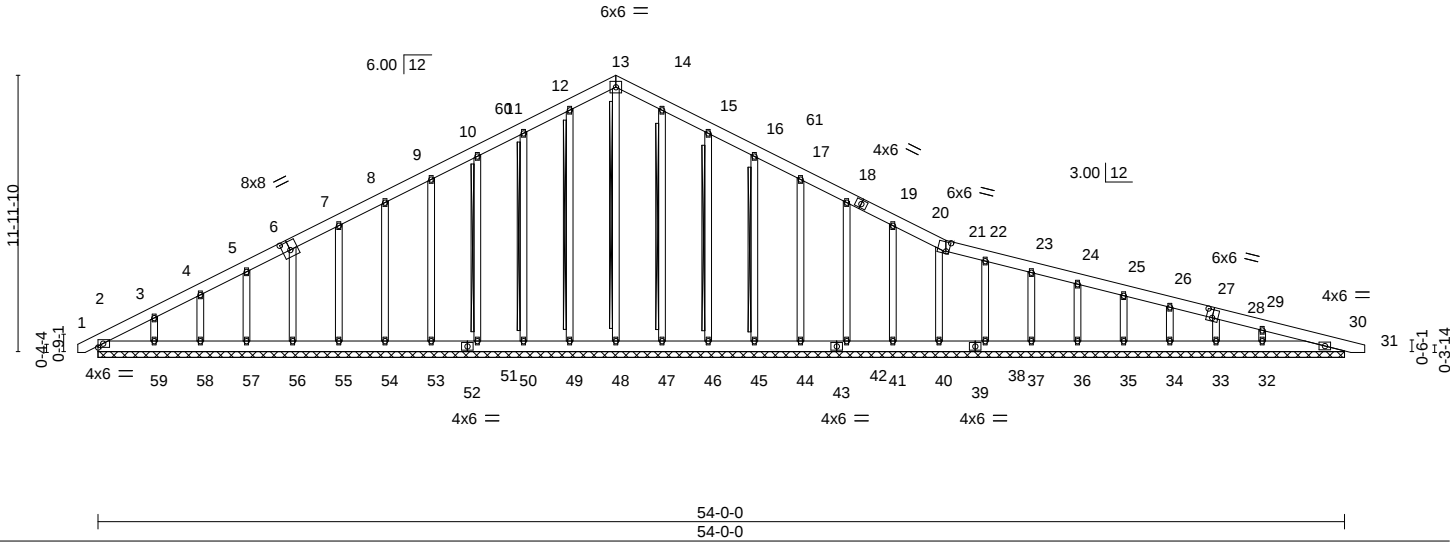


Plate Offsets (X,Y)--		[6:0-4-0,0-4-8], [21:0-1-9,0-4-12], [27:0-3-0,0-4-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	0.00	30	n/r
Vert(CT)	0.00	31	n/r
Horz(CT)	0.01	30	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 463 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 13-48, 12-49, 11-50, 10-51, 14-47, 15-46, 16-45
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. All bearings 54-0-0.
(lb) - Max Horz 2=-235(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 49, 50, 51, 53, 54, 55, 56, 57, 58, 47, 46, 45, 44, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 30 except 59=-117(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 47, 46, 45, 44, 42, 41, 40, 38, 37, 36, 35, 34, 33, 30 except 32=283(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-319/119, 9-10=-99/275, 10-11=-119/326, 11-12=-142/380, 12-13=-152/406, 13-14=-152/391, 14-15=-142/341, 15-16=-119/287

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-10 to 4-5-3, Exterior(2N) 4-5-3 to 22-5-3, Corner(3R) 22-5-3 to 27-10-0, Exterior(2N) 27-10-0 to 54-6-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 49, 50, 51, 53, 54, 55, 56, 57, 58, 47, 46, 45, 44, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 30 except (jt=lb) 59=117.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 30.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



May 22,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	H1G	Common Supported Gable	1	1	173658445

Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:27 2025 Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-pz?16Mj8PIKKF7R8hxGHZ84tZO0oxZXNst3DdNzEJO

-0-10-8 14-0-0 28-0-0 28-10-8
0-10-8 14-0-0 14-0-0 0-10-8

Scale: 1/4"=1'

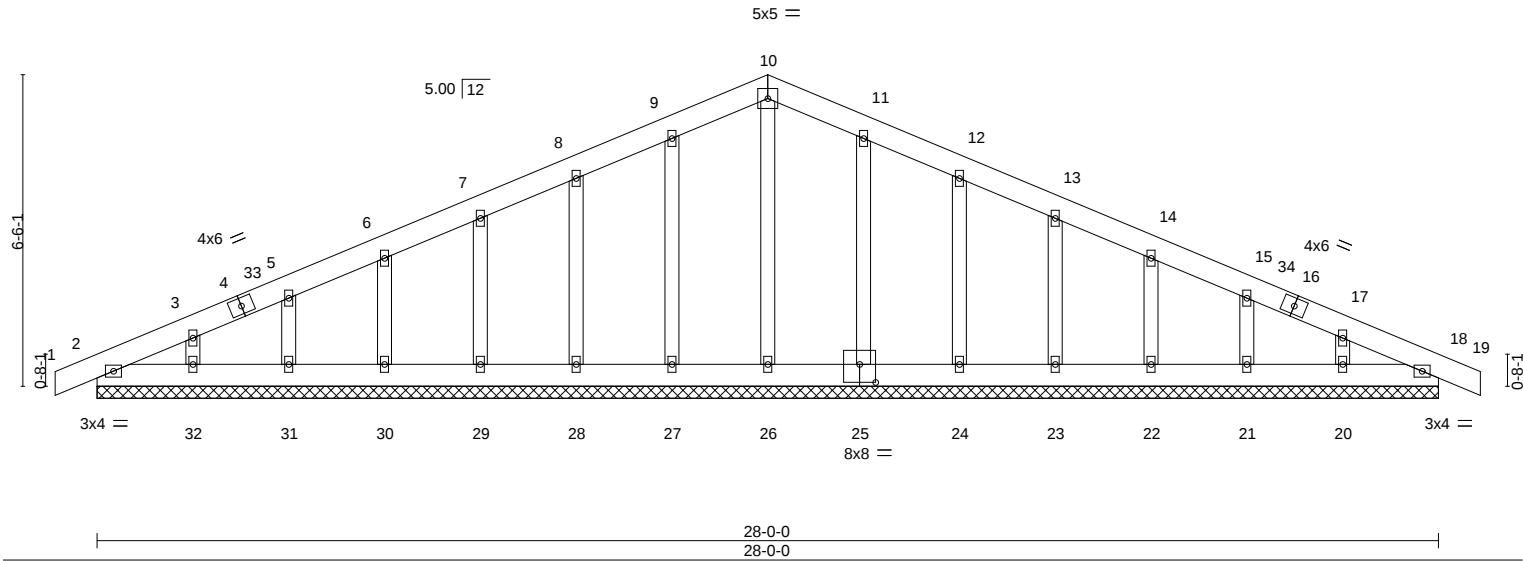


Plate Offsets (X,Y)-- [25:0-4-0,0-4-8]		28-0-0 28-0-0							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00 18	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00 18	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00 18	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS.	All bearings 28-0-0.
(lb) - Max Horz	2=74(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18
Max Grav	All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 14-0-0, Corner(3R) 14-0-0 to 18-4-13, Exterior(2N) 18-4-13 to 28-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 ID:oAgme8L4pHnLZfut7MeGazyS40-H9YPJhkmaCSbtG0LFenWVLc?Fod2gzcW5Xpn8pEJ?z
 0-10-8 7-4-2 14-0-0 20-7-14 28-0-0 28-10-8
 0-10-8 7-4-2 6-7-14 6-7-14 7-4-2 0-10-8

The diagram illustrates a roof truss system with the following components:

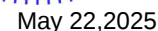
- Members:** Labeled with numbers 1 through 17. Members 1, 2, 3, 4, 13, 14, 15, 16, and 17 are the primary structural members. Members 5, 6, 7, 8, 9, 10, 11, and 12 are secondary members or bracing.
- Joints:** Indicated by small squares at the intersections of members.
- Supports:** Indicated by hatched areas at the base of the truss.
- Dimensions:**
 - Horizontal dimensions: 9-6-12, 18-5-4, 28-0-0.
 - Vertical dimensions: 6-6-1, 0-4-2, 0-8-1.
 - Member dimensions: 5x5, 4x6, 3x4, 2x4, 1x2.
- Notes:**
 - 5x5 =
 - 4x6 =
 - 3x4 =
 - 2x4 =
 - 1x2 =

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-10-4 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2329/502, 3-5=-2130/479, 5-7=-2130/479, 7-8=-2329/502
BOT CHORD	2-12=-394/2081, 10-12=-180/1430, 8-10=-383/2081
WEBS	5-10=-109/808, 7-10=-403/250, 5-12=-109/808, 3-12=-403/250

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 14-0-0, Exterior(2R) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 28-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	H4	ROOF SPECIAL	5	1	173658448

Comtech, Inc., Fayetteville, NC - 28314,

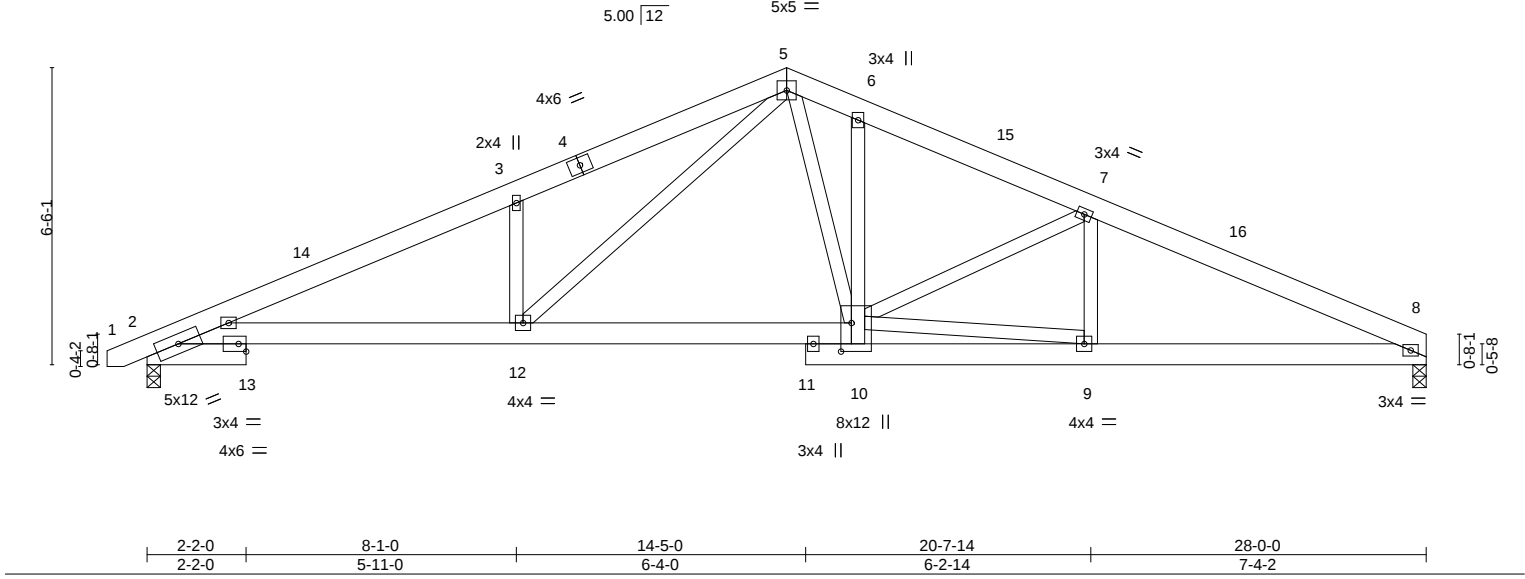
8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:29 2025 Page 1

ID:oAgme8L4apHnLZfut7MeGazyS40-IM6oX1IOxwa2VQaXpMII2Z98dCsFPOXfjBYKgFzEJ?y

Job Reference (optional)

0-10-8 2-2-0 8-1-0 14-0-0 20-7-14 28-0-0
0-10-8 2-2-0 5-11-0 5-11-0 6-7-14 7-4-2

Scale = 1:50.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.11	2-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.24	2-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.09	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.09	2-12	>999	240	Weight: 195 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
6-10: 2x4 SP No.2	
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=75(LC 16)
Max Uplift 8=70(LC 13), 2=81(LC 12)
Max Grav 8=1108(LC 1), 2=1159(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2462/538, 3-5=-2450/671, 5-6=-1622/486, 6-7=-1705/445, 7-8=-2139/486
BOT CHORD 2-12=-427/2189, 10-12=-202/1367, 9-10=-363/1900, 8-9=-361/1894
WEBS 3-12=-423/267, 7-10=-494/169, 5-12=-310/1128, 5-10=-148/573

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 14-0-0, Exterior(2R) 14-0-0 to 18-4-13, Interior(1) 18-4-13 to 27-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Comtech, Inc.	Fayetteville, NC - 28314,	8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:29 2025 Page 1
7-4-2	14-0-0	ID:oAgme8L4apHnLZfut7MeGazyS40-lM6oX1lOxwa2VQaXpMlI2Z9ANcZDPQsfJBYPKfGfEJ?y
7-4-2	6-7-14	20-7-14 28-0-0
		6-7-14 7-4-2

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-9-15 oc purlins.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2335/511, 2-3=-2135/490, 3-4=-2135/490, 4-5=-2335/511
 BOT CHORD 1-8=-406/2087, 6-8=-188/1433, 5-6=-393/2087
 WEBS 3-6=-111/810, 4-6=-406/254, 8-8=-111/810, 2-8=-406/254

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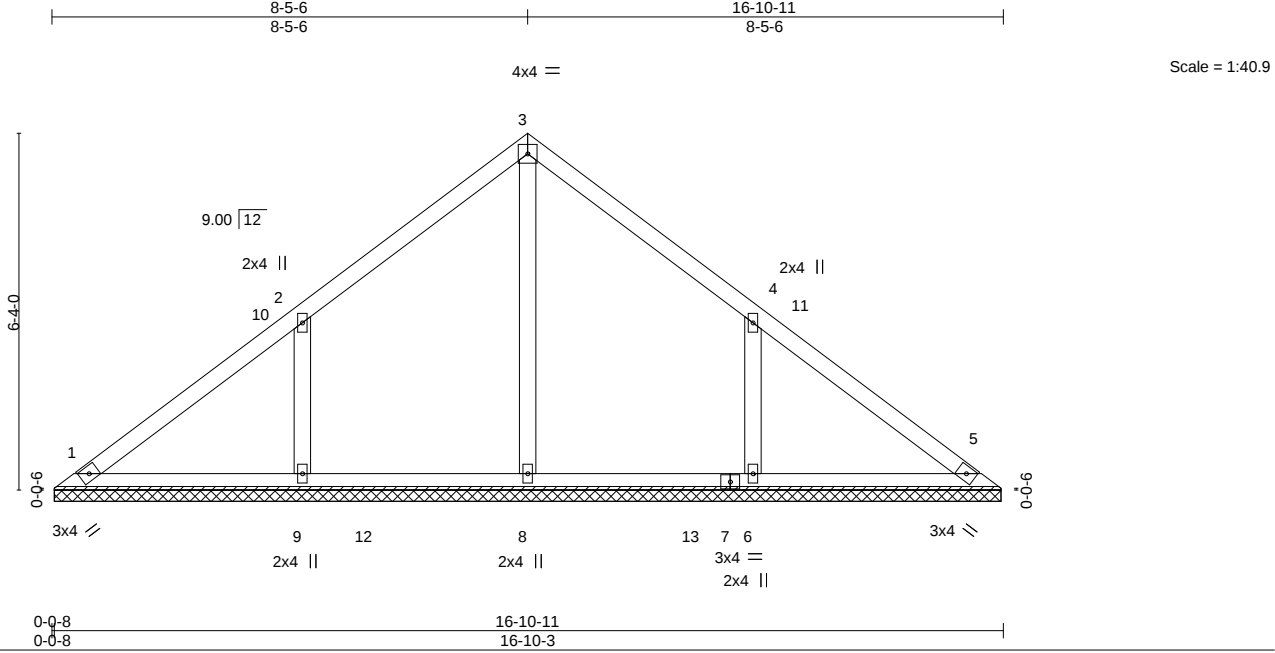
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ENGINEERING BY
TRENCO
A MiTek Affiliat

818 Soundside Road
Edenton, NC 27922

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	VB1	Valley	1	1	173658450

Comtech, Inc., Fayetteville, NC - 28314, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:30 2025 Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-DYgAkNI0hDiv6a9jN3p_bmiMZcOD8uipYrluDhzEJ?x



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc)	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00		
	Code IRC2018/TPI2014			Weight: 72 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 16-9-11.
(lb) - Max Horz 1=-144(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-133(LC 12), 6=-133(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=403(LC 19), 9=510(LC 19), 6=510(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-317/246, 4-6=-317/246

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 8-5-6, Exterior(2R) 8-5-6 to 12-10-2, Interior(1) 12-10-2 to 16-5-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=133, 6=133.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

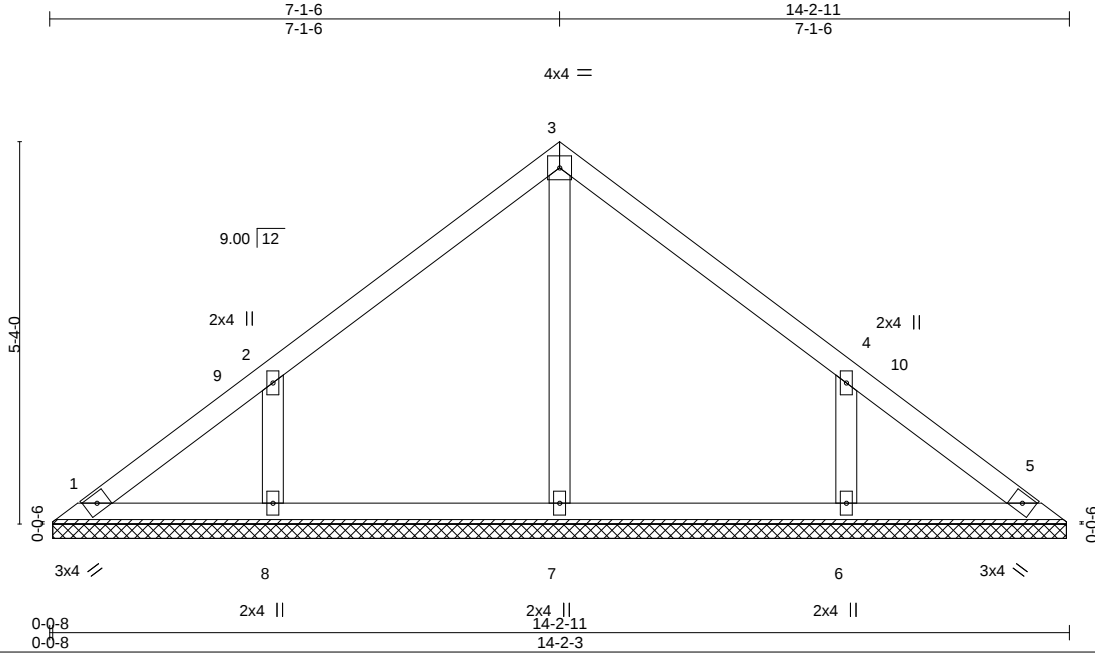


May 22,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	VB2	Valley	1	1	173658451

Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:30 2025 Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-DYgAkNI0hDiv6a9jN3p_bmiMEcPK8u4pYrluDhzEJ?x



Scale: 3/8\"=1'

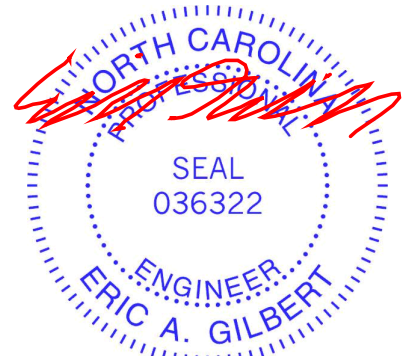
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 58 lb	FT = 20%
	Code IRC2018/TPI2014								

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 14-1-11.
(lb) - Max Horz 1=120(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-113(LC 12), 6=-113(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=345(LC 19), 6=345(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-269/246, 4-6=-269/246

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 7-1-6, Exterior(2R) 7-1-6 to 11-6-2, Interior(1) 11-6-2 to 13-9-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=113, 6=113.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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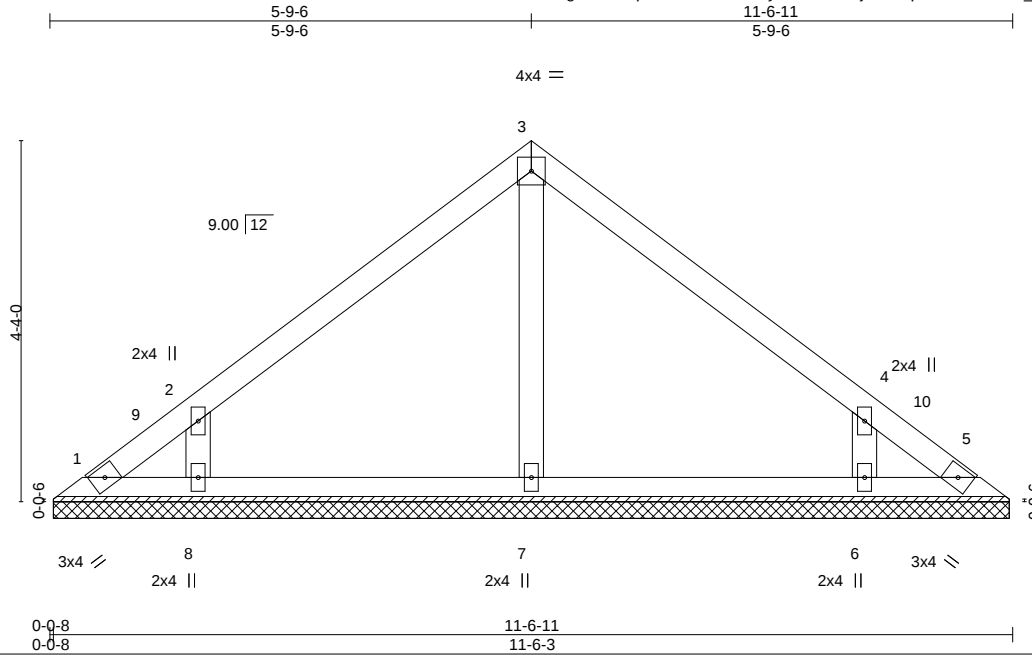
Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	VB3	Valley	1	1	173658452

Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:31 2025 Page 1

ID:oAgme8L4apHnLZfut7MeGazyS40-hkEYxjmfSXqmkkkwwmKD7_EX00kWtMhynV1RI8zEJ?w

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 45 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 11-5-11.

(lb) - Max Horz 1=96(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=109(LC 12), 6=109(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=322(LC 19), 6=322(LC 20)

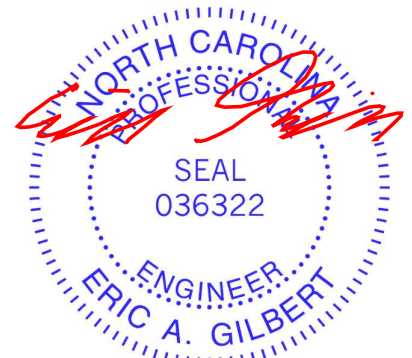
FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-8=-263/281, 4-6=-263/281

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-9-6, Exterior(2R) 5-9-6 to 10-2-2, Interior(1) 10-2-2 to 11-1-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=109, 6=109.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

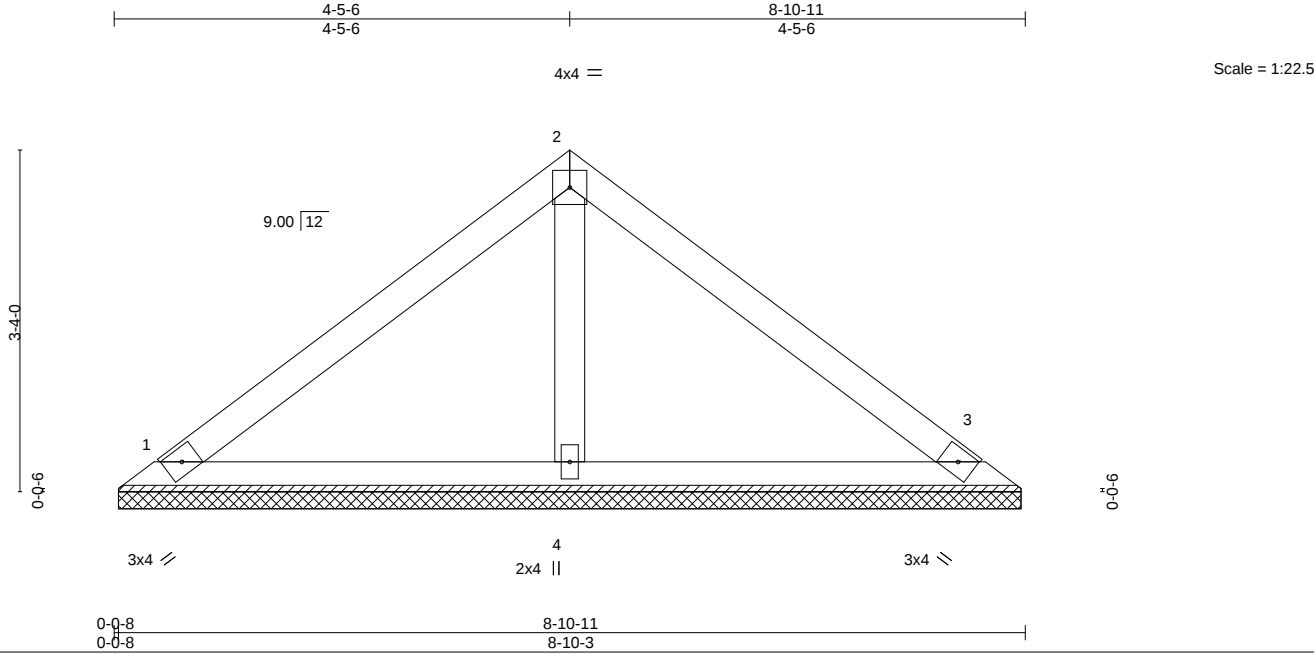
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	VB4	Valley	1	1	173658453

Comtech, Inc., Fayetteville, NC - 28314, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:31 2025 Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-hkEYxjmfSXqmkkkwwmKD7_EWK0k2tMyynV1Rl8zEJ?w



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=8-9-11, 3=8-9-11, 4=8-9-11
Max Horz 1=72(LC 9)
Max Uplift 1=-28(LC 12), 3=-35(LC 13)
Max Grav 1=180(LC 1), 3=180(LC 1), 4=281(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

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Edenton, NC 27932

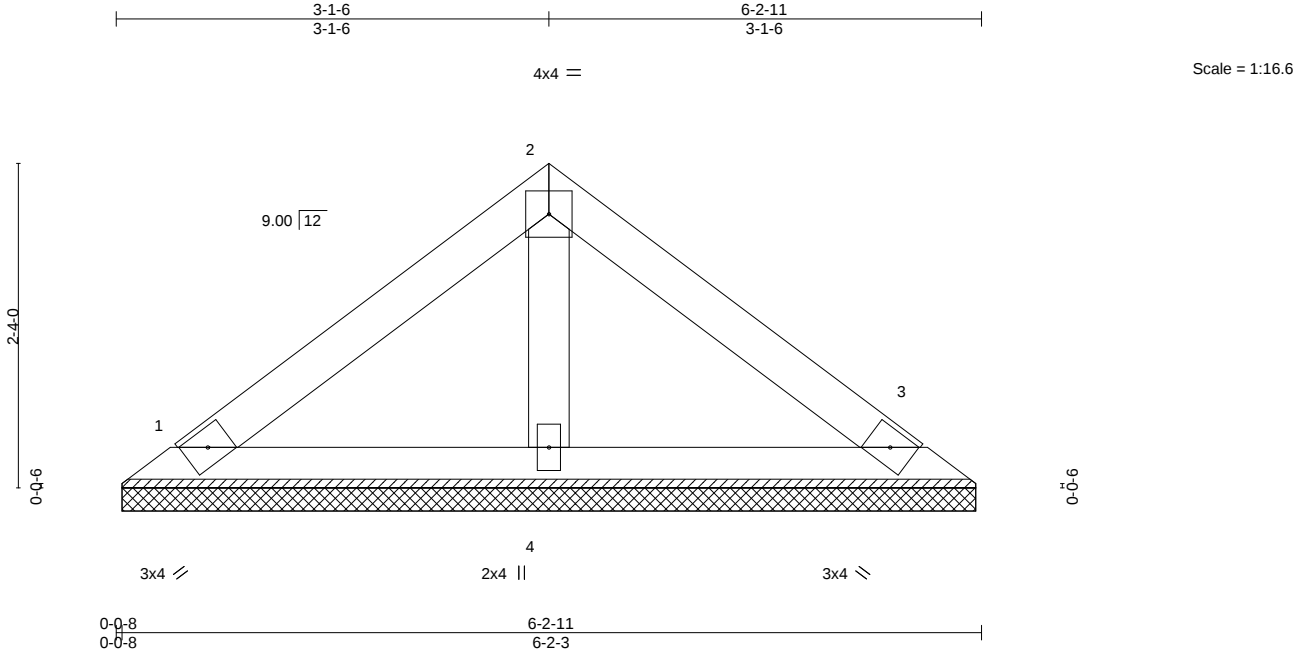
Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing
J0325-1590	VB5	Valley	1	1	173658454

Comtech, Inc., Fayetteville, NC - 28314,

8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:32 2025 Page 1

ID:oAgme8L4apHnLZfut7MeGazyS40-9xow93nHDrydMuJ6UUrSgBnjwP5JcpS6?9n_HazEJ?v

Job Reference (optional)



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=6-1-11, 3=6-1-11, 4=6-1-11
Max Horz 1=-48(LC 8)
Max Uplift 1=-19(LC 12), 3=-23(LC 13)
Max Grav 1=120(LC 1), 3=120(LC 1), 4=188(LC 1)

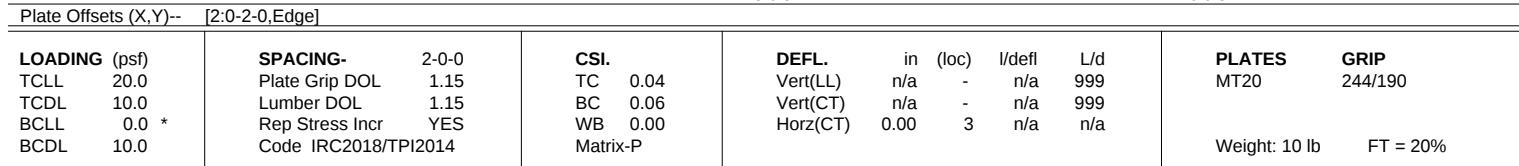
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

Comtech, Inc. Fayetteville, NC - 28314, 8.530 s a/s 2 2023 MiTek Industries, Inc. Wed May 21 10:19:32 2025 Page 1
ID:oAgme8L4apHnLzfut7MeGazyS40-9xow93nHDrydMuJ6UUrSgBnkDP5Bcpi6?9n_HazEj?v



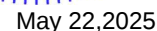
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

TOP CHORD	Structural wood sheathing directly applied or 3-6-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS: (size) 1=3-5-11, 3=3-5-11
 Max Horz 1=24(LC 11)
 Max Uplift 1=-5(LC 12), 3=-5(LC 13)
 Max Grav 1=107(LC 1), 3=107(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-19 (Rev. 1/2/2025) BEFORE USE.

Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)



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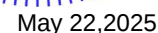
Comtech, Inc. Fayetteville, NC - 28314, 8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:33 2025 Page 1
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 10-5-0 20-9-15
 10-5-0 10-4-15



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SP No.1	BOT CHORD	
OTHERS	2x4 SP No.2		

NOTES-

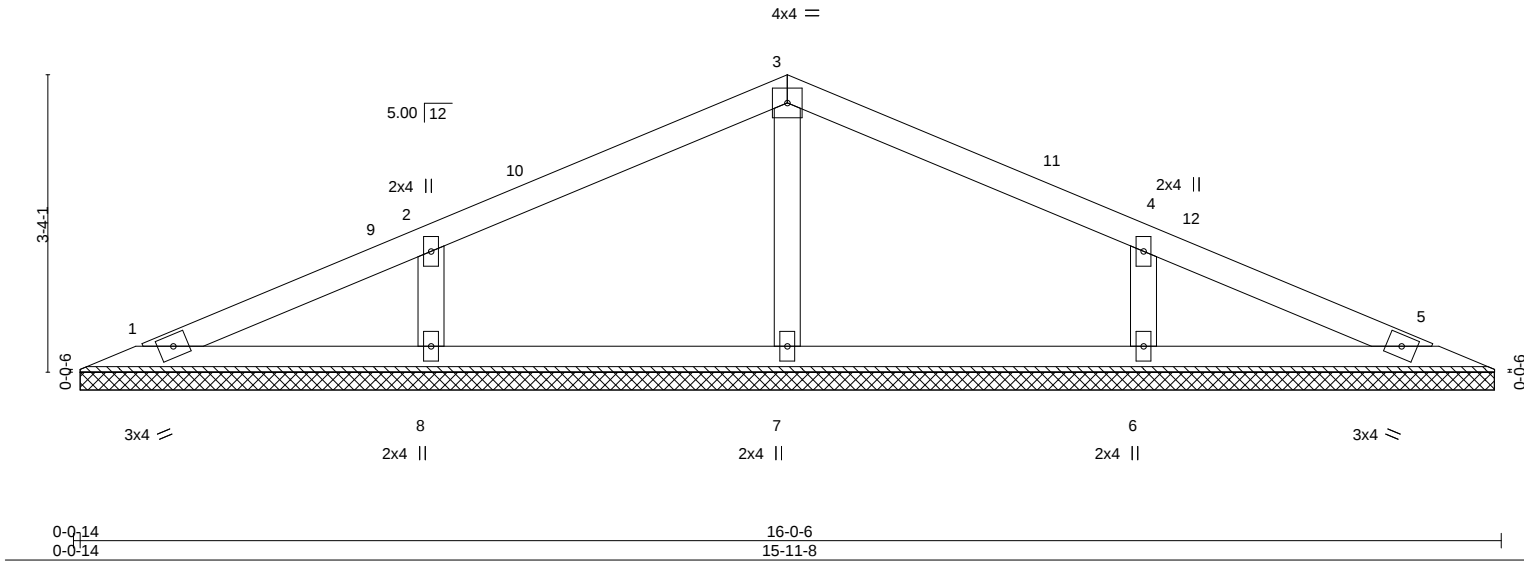
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-9-6 to 5-2-3, Interior(1) 5-2-3 to 10-5-0, Exterior(2R) 10-5-0 to 14-9-12, Interior(1) 14-9-12 to 20-0-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	Lot 25 Ducks Landing	173658457
J0325-1590	VG2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc.,
Fayetteville, NC - 28314,
8.530 s Aug 2 2023 MiTek Industries, Inc. Wed May 21 10:19:33 2025 Page 1
ID:oAgme8L4apHnLZfut7MeGazyS40-d7MIMPov_84Uz2ui2BMhCPKtGpQ8LGJFEpWYp0zEJ?u
16-0-6
8-0-3

Scale = 1:25.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00				
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							
								Weight: 54 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 15-10-9.
 (lb) - Max Horz 1=36(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=281(LC 1), 8=342(LC 25), 6=342(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-259/234, 4-6=-259/234

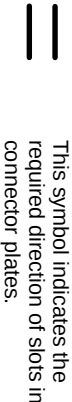
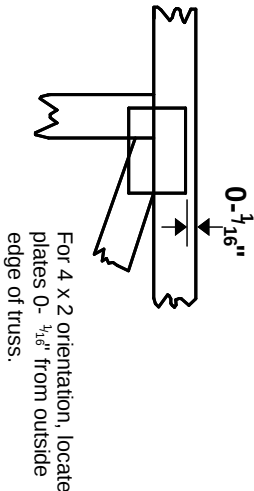
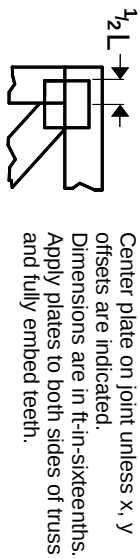
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-9-6 to 5-2-3, Interior(1) 5-2-3 to 8-0-3, Exterior(2R) 8-0-3 to 12-5-0, Interior(1) 12-5-0 to 15-3-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 22,2025

Symbols

PLATE LOCATION AND ORIENTATION



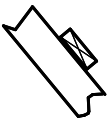
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

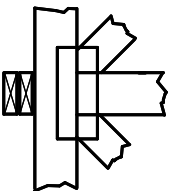
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

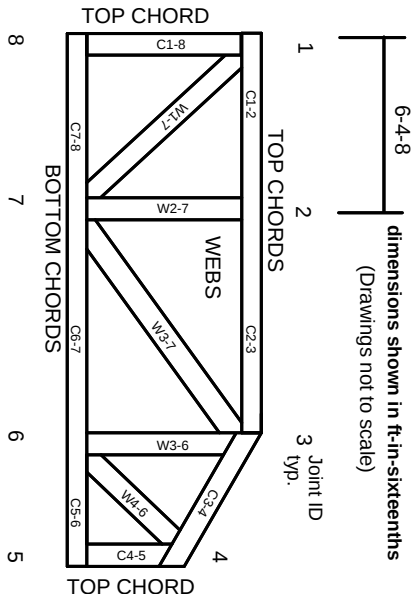


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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